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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : D. Amnon Silverstein

Art Unit : 2612

Serial No. : 09/484,667

Examiner : Rosendale, Matthew L.

Filed : Jan. 18, 2000

Title : POINTING DEVICE FOR DIGITAL CAMERA DISPLAY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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EXHIBIT B

Technology Center 2600

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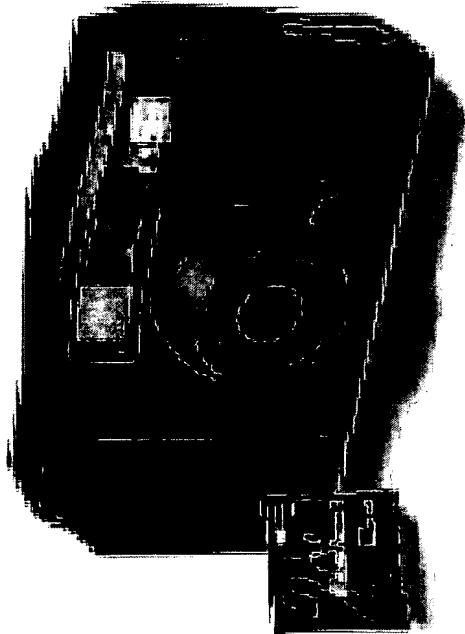
Edouard Garcia

(Typed or printed name of person mailing papers)

Capybara

Will a microdisplay work well in a hand-held camera?

- Build a viewfinder display camera
- Test user-interface ideas
- Experiment with the camera in actual use



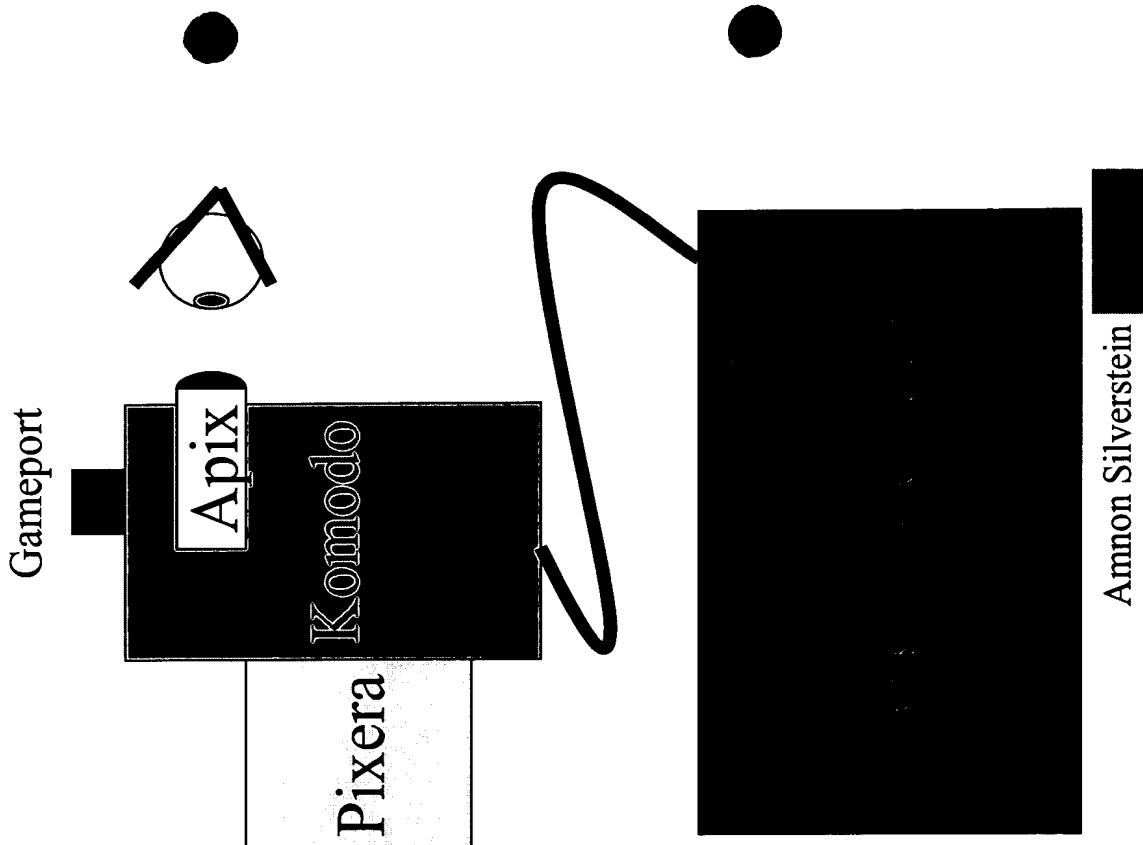
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Hardware

- Camera Body: Komodo (HID)
- Camera: Pixera
- Controller: Pentium desktop_{C-mount}
- Display: Apix (ICBD)
- UI controls: Gameport
- Lens: C-mount
- View optics: HP (HID)



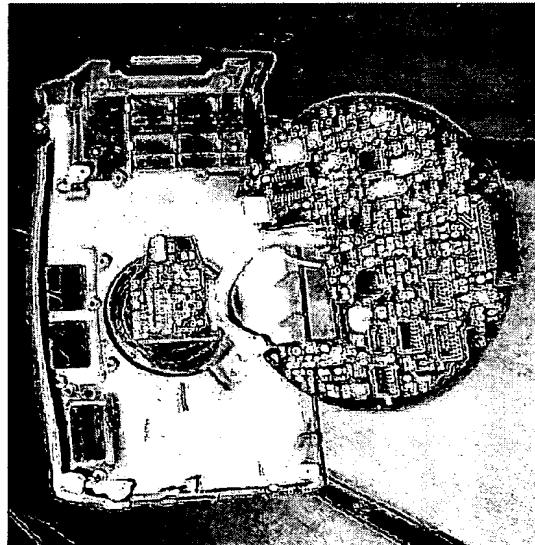
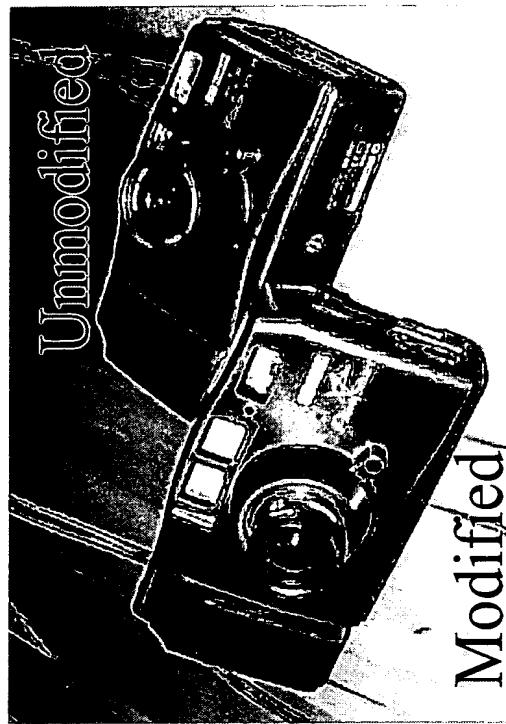
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Modified Komodo

We chose the Pixera camera,
and we modified it to fit into
the Komodo body.

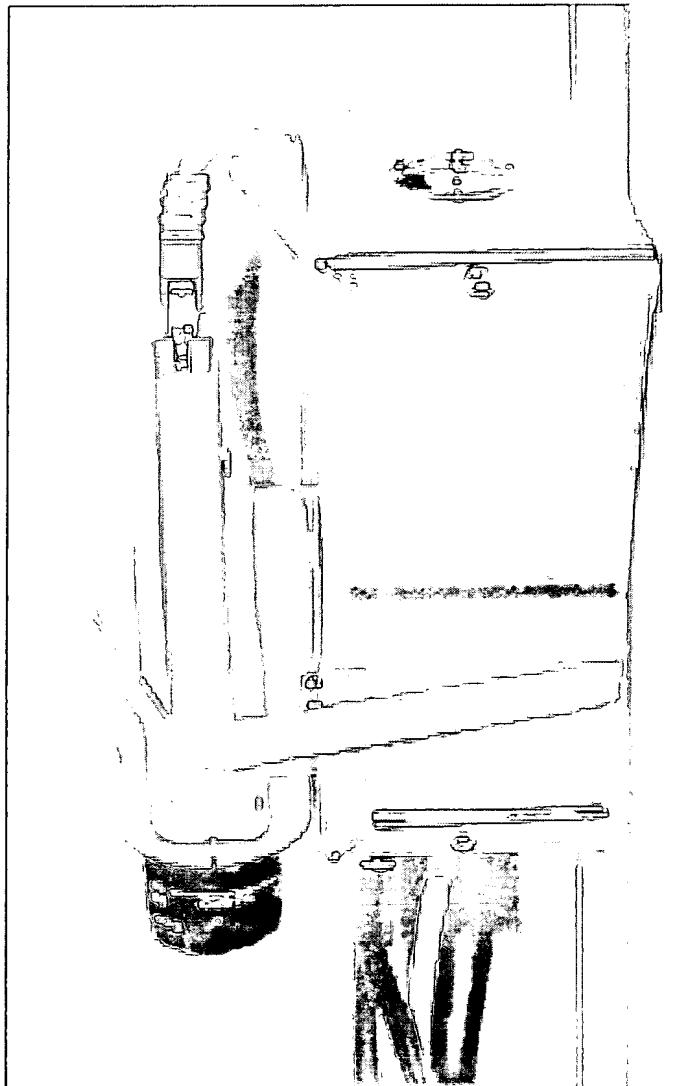


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Interim Tester



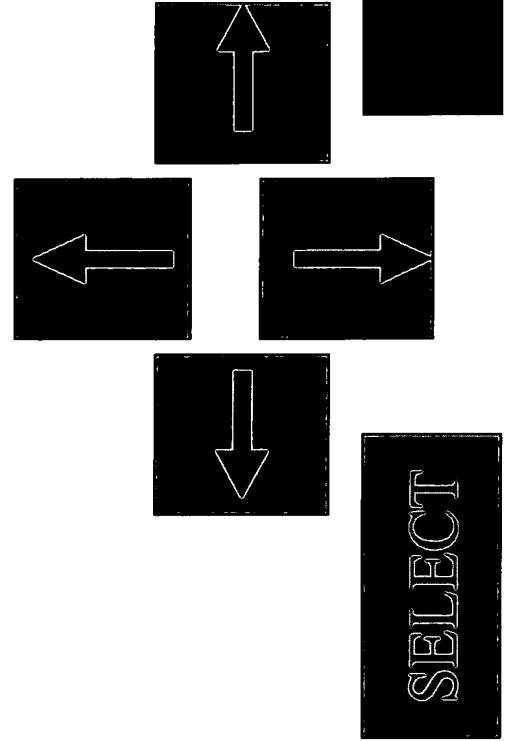
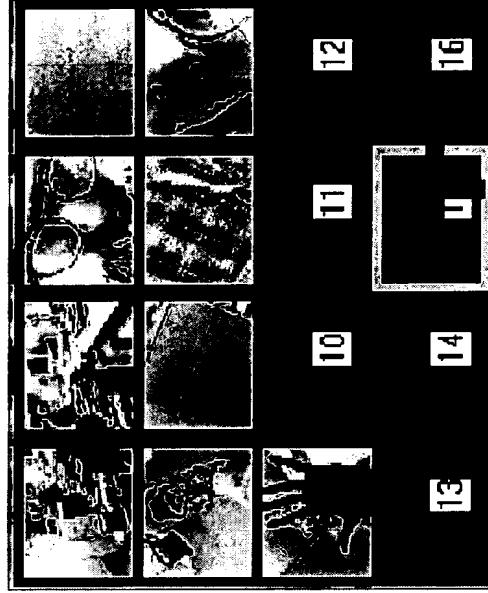
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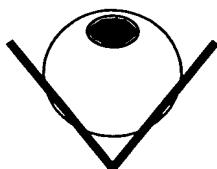
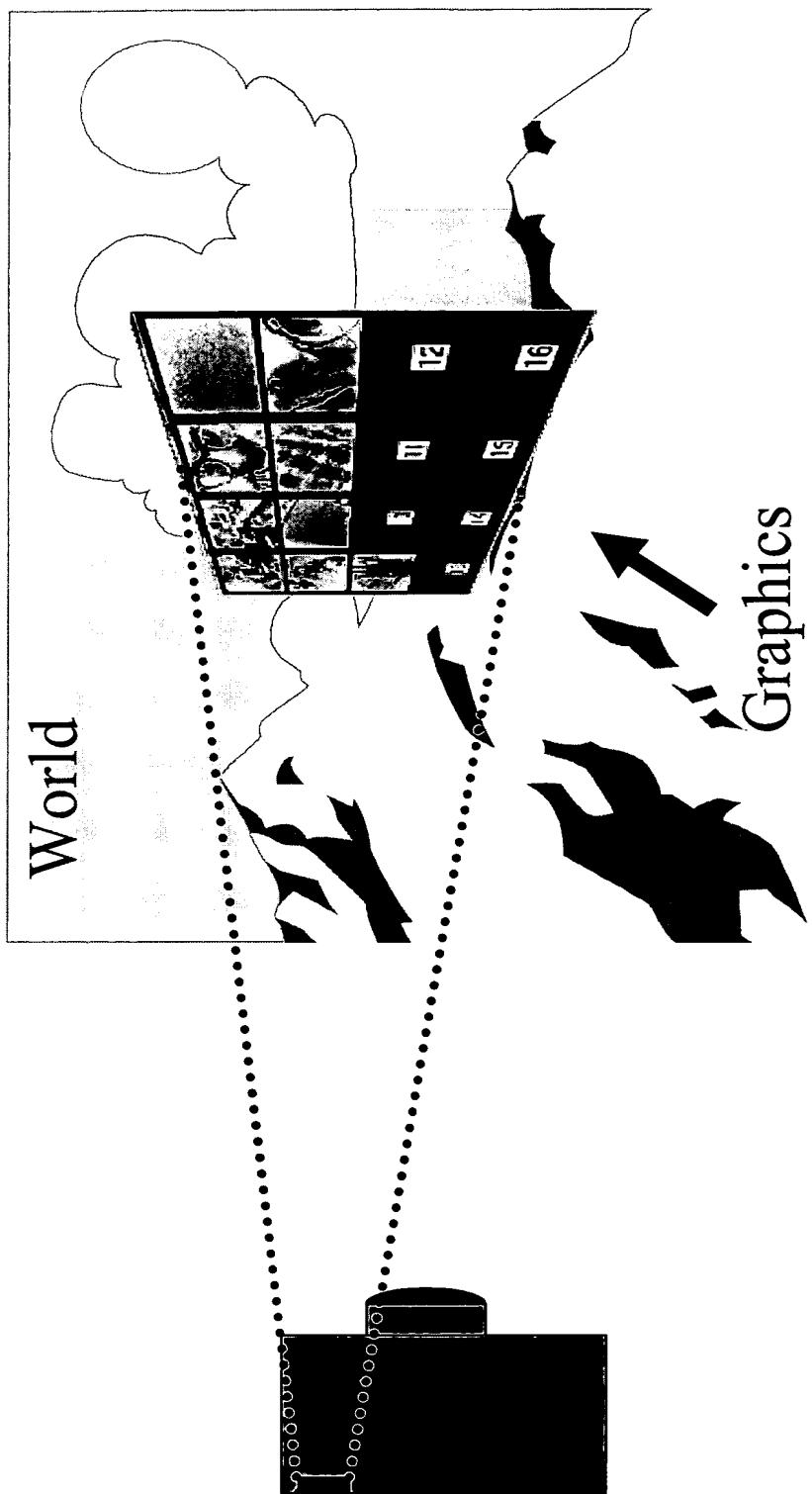
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Software

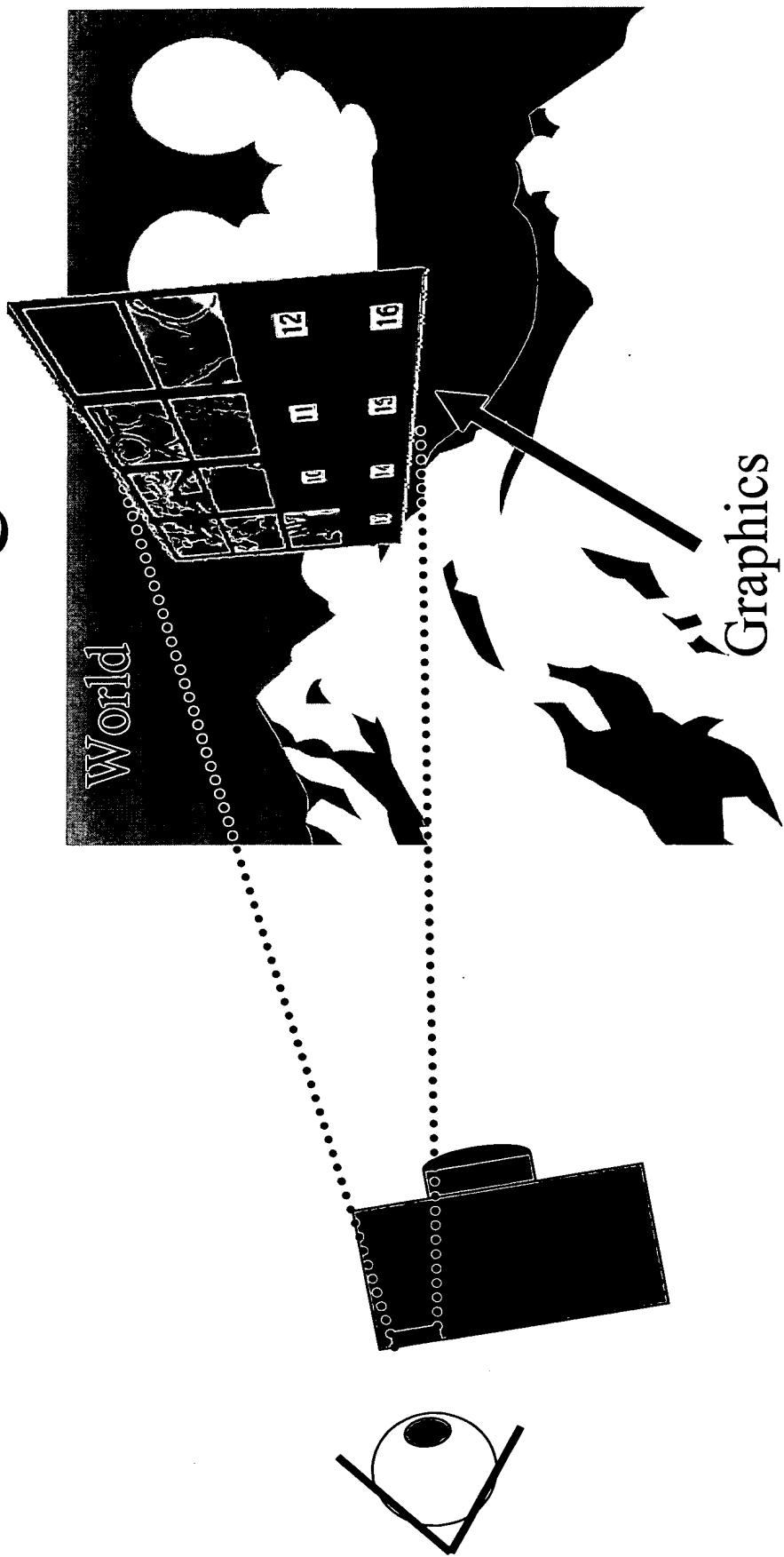
- How will the UI work?
- It may be difficult to look into the display and operate the controls at the same time.



Using the Camera Like a Gun-Sight



Using the Camera Like a Gun-Sight

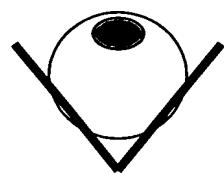
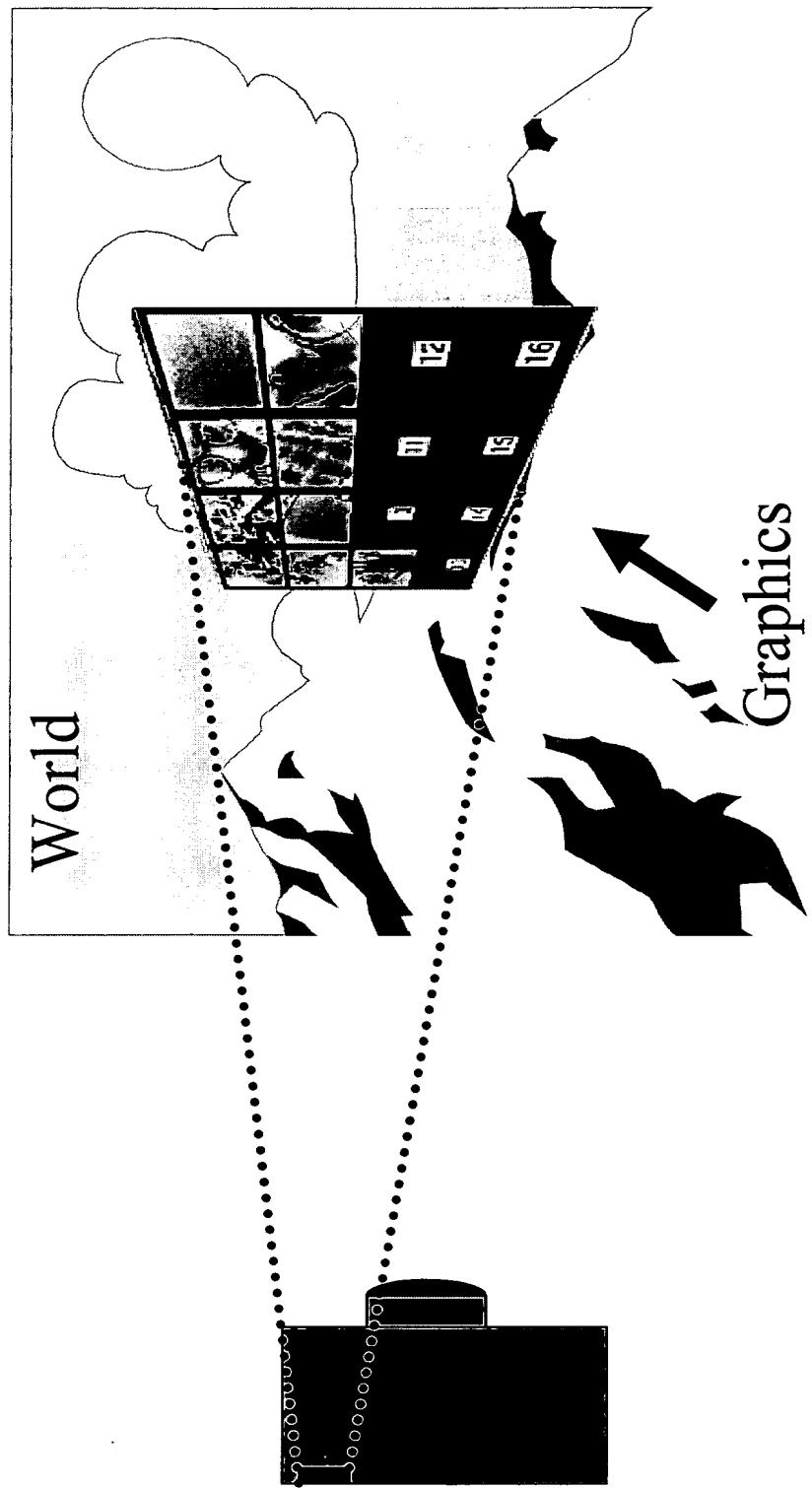


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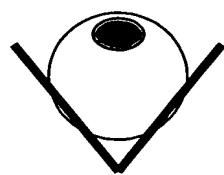
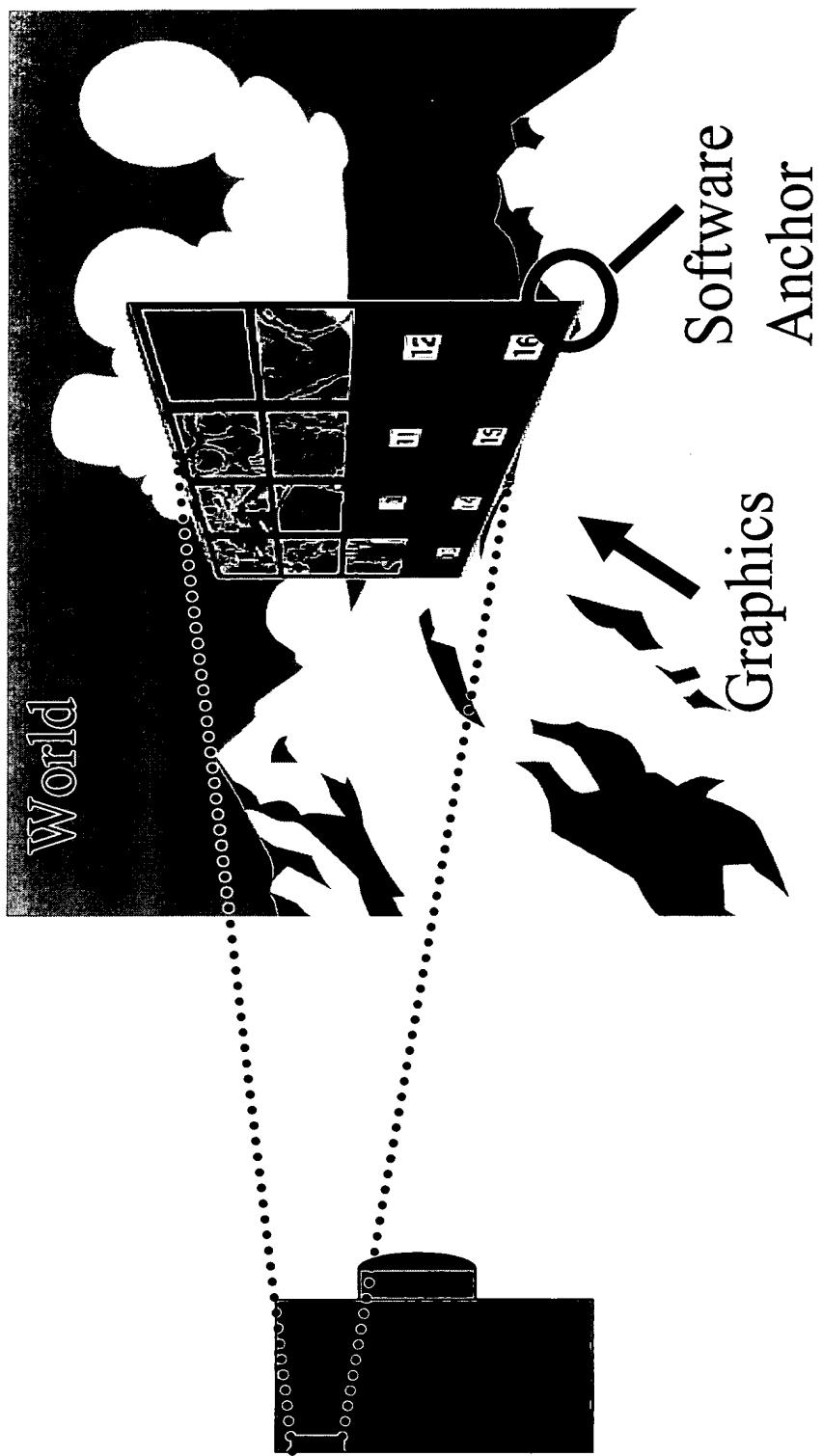


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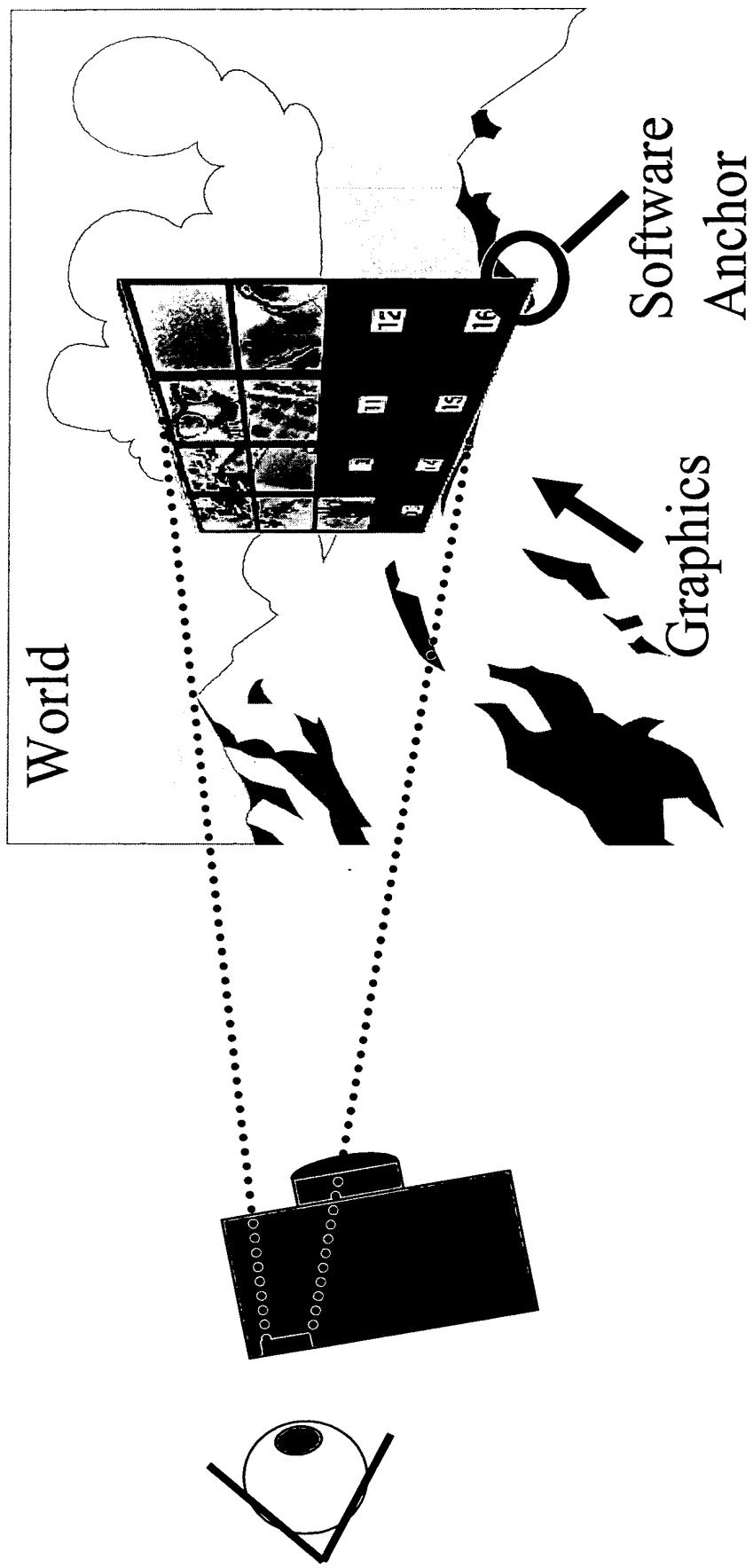


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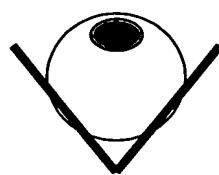
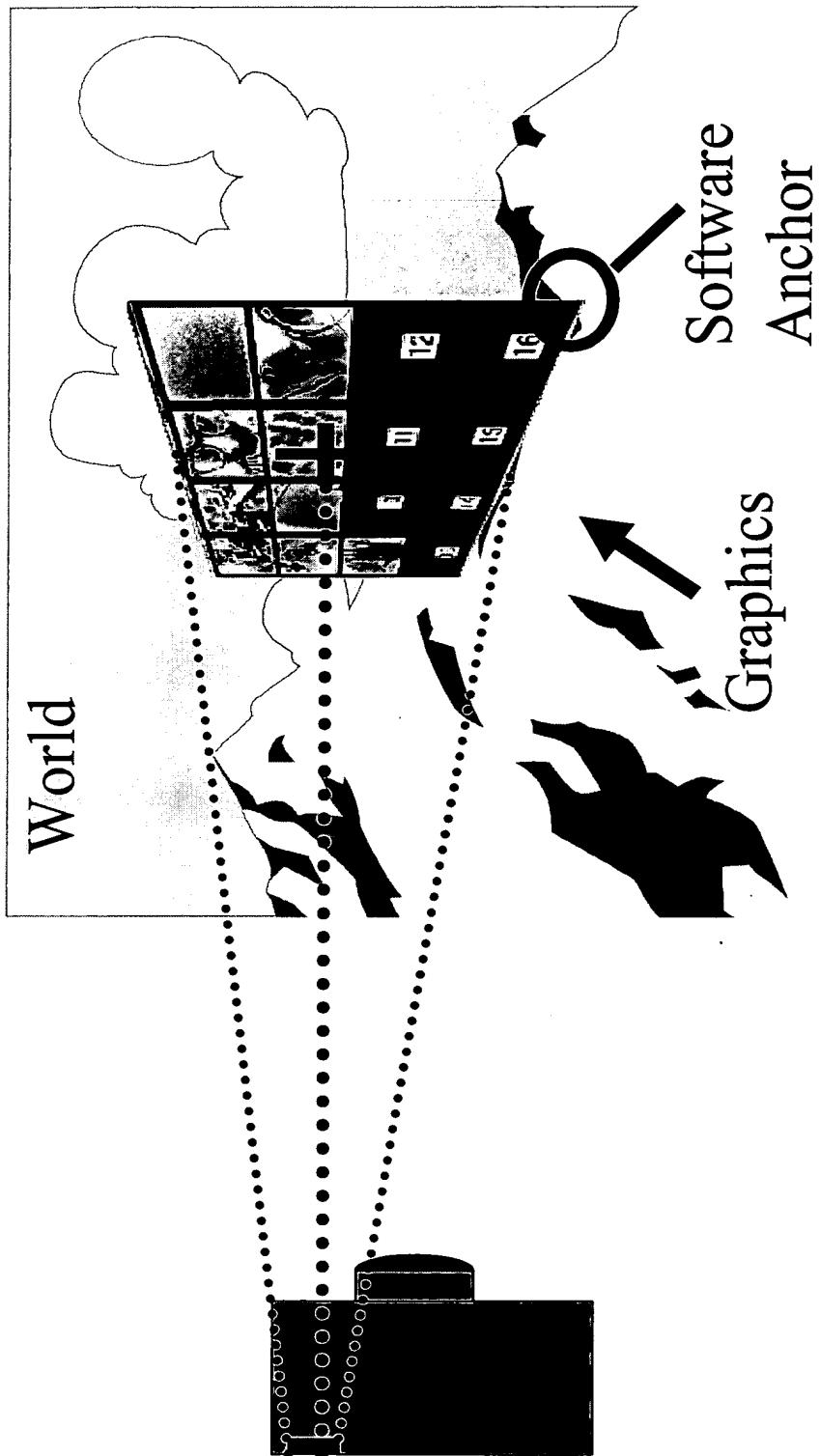


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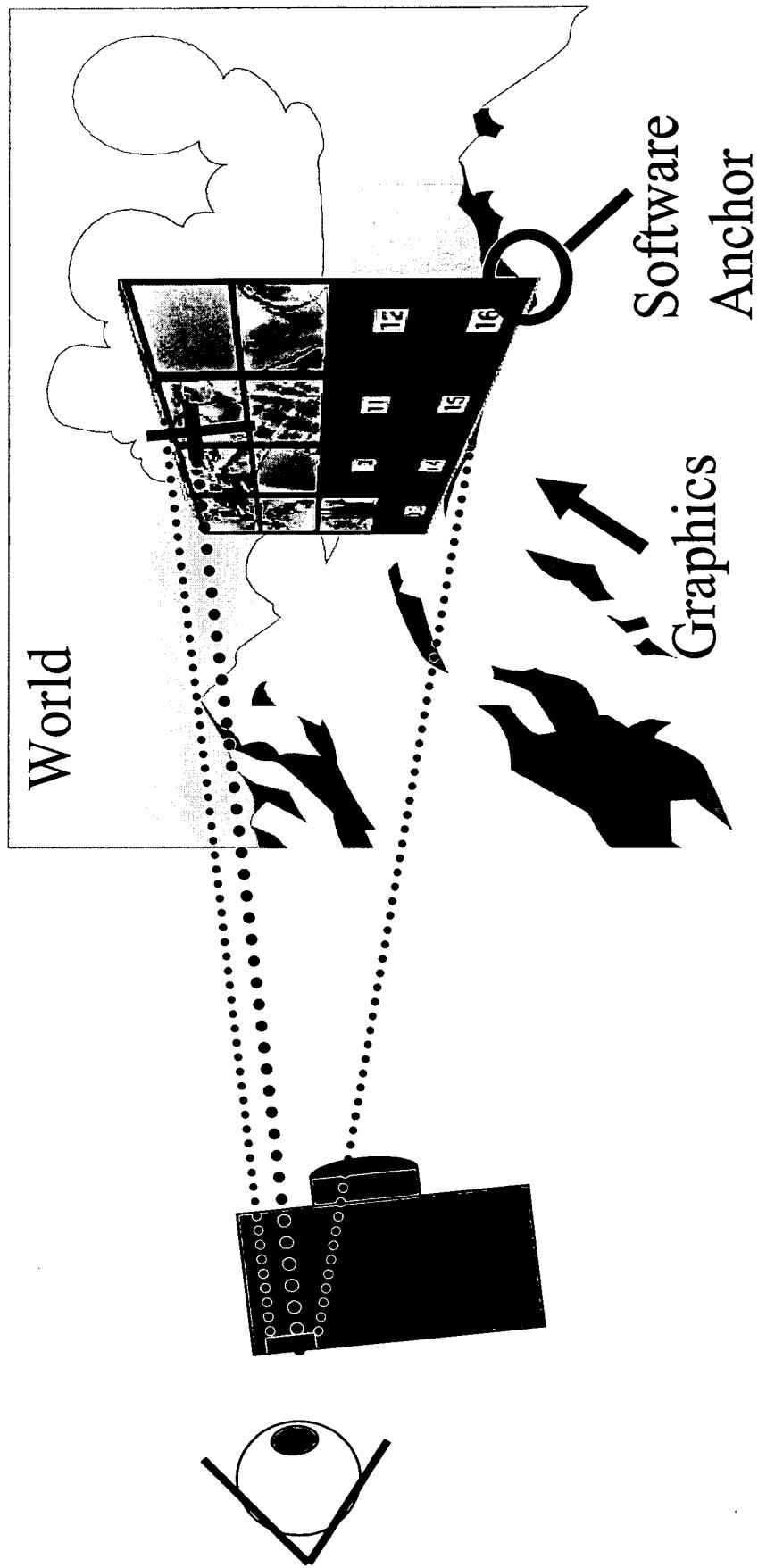


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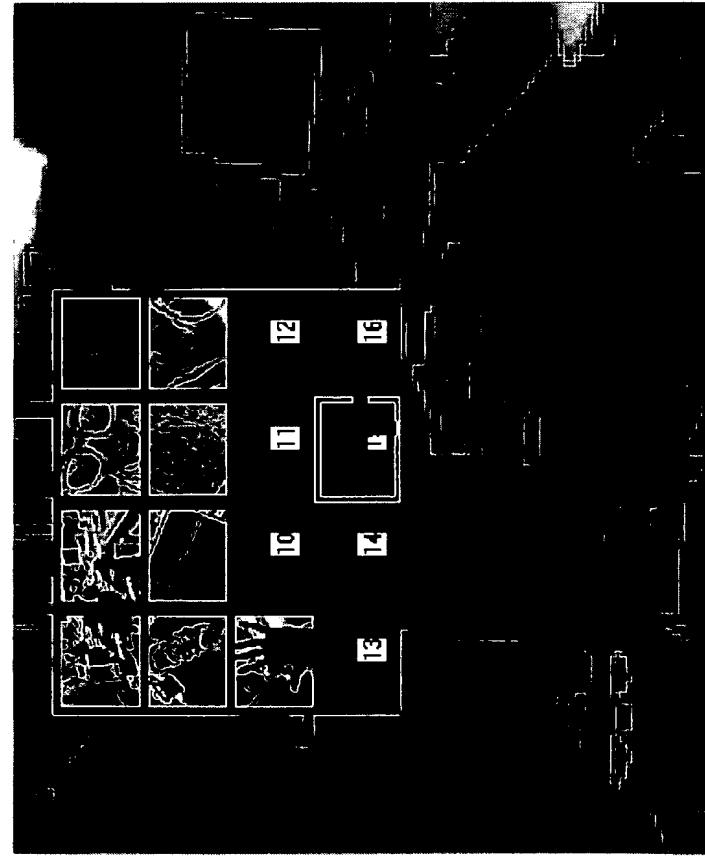
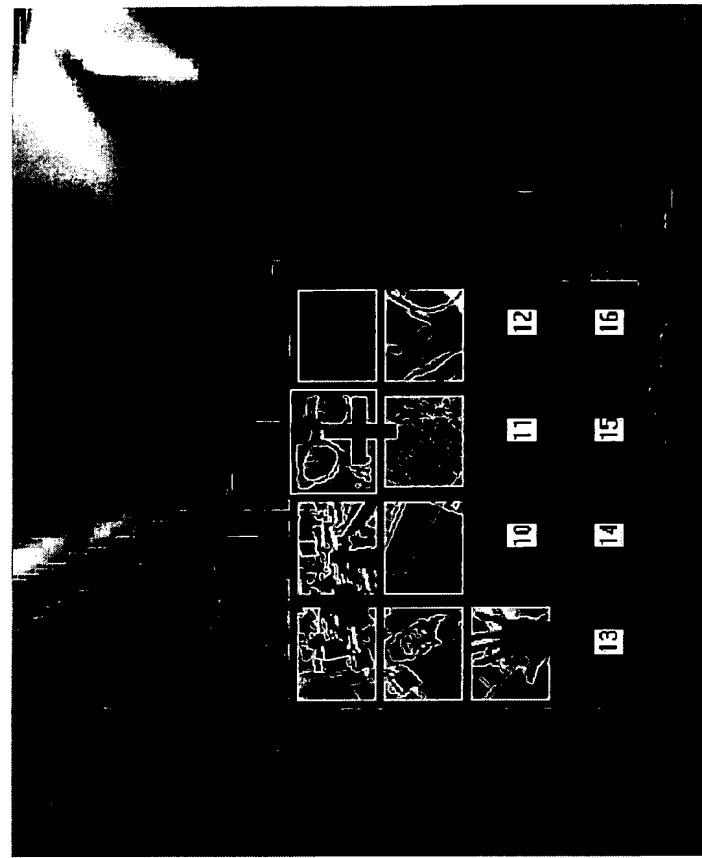
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Using the Camera Like a Gun-Sight



Camera-Mouse

Use motion-tracking software
(Andrew Patti) to track the
position of the camera

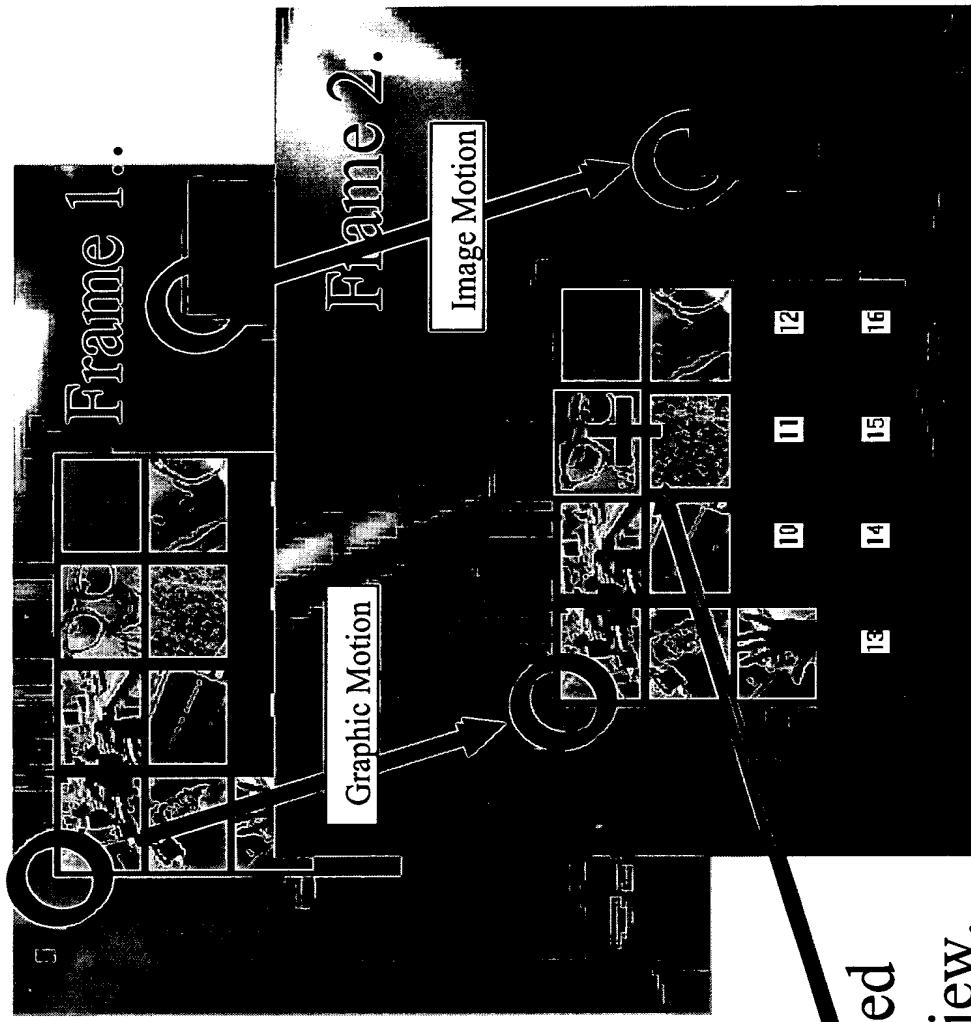


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Camera-Mouse



Crosshairs cursor fixed
in the center of the view.

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Flying Mouse



- Low cost
- Low power
- low light
- Built-in tracking algorithm

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